

AIR QUALITY PERMIT

Issued To: Ward Crushing, L.L.C.
322 Vanderwood Road
Libby, MT 59923

Permit #2990-04
Administrative Amendment (AA) Requested: 7/28/04
Department Decision on AA Issued: 8/26/04
Permit Final: 9/11/04
AFS #777-2990

An air quality permit, with conditions, is hereby granted to Ward Crushing, L.L.C. (Ward), pursuant to Sections 75-2-204 and 211, Montana Code Annotated (MCA), as amended, and the Administrative Rules of Montana (ARM) 17.8.740, *et seq.*, as amended, for the following:

Section I: Permitted Facilities

A. Plant Location

Ward operates a portable crushing/screening operation at various locations throughout Montana. Permit #2990-04 applies while operating at any location in Montana, except within those areas having a Department of Environmental Quality (Department) approved permitting program, those areas considered tribal lands, or those areas in or within 10 kilometers (km) of certain particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀) nonattainment areas. *A Missoula County air quality permit will be required for locations within Missoula County, Montana.* Addendum 4 applies to the Ward facility while operating at any location in or within 10 km of certain PM₁₀ nonattainment areas, including the proposed site location, the N ½ of the NE ¼ of Section 15, Township 21 North, Range 29 West, in Sanders County, Montana. A complete list of the permitted equipment is contained in Section I.A of the Permit Analysis.

B. Current Permit Action

On July 28, 2004, Ward requested an administrative amendment to Permit #2990-03 to add the Hillcrest gravel pit (N ½ of the NE ¼ of Section 15, Township 21 North, Range 29 West, in Sanders County, Montana) to their existing addendum. Further, on July 28, 2004, Ward also requested that the permit be generalized to allow for additional operational flexibility. However, on August 25, 2004, Ward chose to revoke that request. The permit was also updated to reflect the current language and rule references used by the Department.

Section II: Limitations and Conditions

A. Operational Limitations and Conditions

1. All visible emissions from the 1987 Norberg Cone crusher may not exhibit an opacity of 15% or greater averaged over 6 consecutive minutes (ARM 17.8.340, ARM 17.8.752, and 40 CFR 60, Subpart OOO).
2. All visible emissions from the 1983 EL Jay 3-deck screen, the 1983 4'x14' screen, and any other affected equipment manufactured after August 31, 1983, may not exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.340, ARM 17.8.752, and 40 CFR 60, Subpart OOO).
3. Ward shall not cause or authorize to be discharged into the atmosphere from any

other equipment; such as the 1949 Tandem crushing plant, the 1959 Pioneer Jaw crusher, and any screens or transfer points; any visible emissions that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes (ARM 17.8.308 and 17.8.752).

4. Ward shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne particulate matter (ARM 17.8.308).
5. Ward shall treat all unpaved portions of the haul roads, access roads, parking lots, or general plant area with water and/or chemical dust suppressant as necessary to maintain compliance with the reasonable precautions limitation in Section II.A.4 (ARM 17.8.752).
6. Water spray bars shall be available on site at all times, and operated as necessary, to maintain compliance with the opacity limitations in Sections II.A.1, II.A.2, and II.A.3 (ARM 17.8.752).
7. If the permitted equipment is used in conjunction with any other equipment owned or operated by Ward, at the same site, production shall be limited to correspond with an emission level that does not exceed 250 tons during any rolling 12-month time period. Any calculations used to establish production levels shall be approved by the Department (ARM 17.8.749).
8. Ward shall comply with all applicable standards and limitations, and the reporting, recordkeeping, and notification requirements contained in 40 CFR Part 60, Subpart OOO for the crushing/screening plant (ARM 17.8.340 and 40 CFR 60, Subpart OOO).
9. Operation of each of the diesel generators shall not exceed 6830 hours during any rolling 12-month time period (ARM 17.8.749).

B. Testing Requirements

1. All compliance source tests shall conform to the requirements of the Montana Source Test Protocol and Procedures Manual (ARM 17.8.106).
2. The Department may require further testing (ARM 17.8.105).

C. Addendum

Ward shall comply with all conditions in Addendum 4 to Permit #2990-04 as appropriate (ARM 17.8.749).

D. Operational Reporting Requirements

1. If this portable crushing/screening plant is moved to another location, an Intent to Transfer Form must be sent to the Department. In addition, a Public Notice Form for Change of Location must be published in a newspaper of general circulation in the area to which the transfer is to be made, at least 15 days prior to the move. The Intent to Transfer Form and the proof of publication (affidavit) of the Public Notice Form for Change of Location must be submitted to the Department prior to the move. These forms are available from the Department (ARM 17.8.765).
2. Ward shall maintain on-site records showing daily hours of operation and daily production rates for the last 12 months. All records compiled in accordance with

this permit shall be maintained by Ward as a permanent business record for at least 5 years following the date of the measurement, must be submitted to the Department upon request, and must be available at the plant site for inspection by the Department (ARM 17.8.749).

3. Ward shall supply the Department with annual production information for all emission points, as required, by the Department in the annual emission inventory request. The request will include, but is not limited to, all sources of emissions identified in the most recent emission inventory report and sources identified in Section I.A of the Permit Analysis.

Production information shall be gathered on a calendar-year basis and submitted to the Department by the date required in the emission inventory request. Information shall be in units as required by the Department. This information may be used for calculating operating fees, based on actual emissions from the facility, and/or to verify compliance with permit limitations (ARM 17.8.505).

4. Ward shall notify the Department of any construction or improvement project conducted, pursuant to ARM 17.8.745, that would include a change in control equipment, stack height, stack diameter, stack flow, stack gas temperature, source location, or fuel specifications, or would result in an increase in source capacity above it's permitted operation or the addition of a new emission unit. The notice must be submitted to the Department, in writing, 10 days prior to start-up or use of the proposed de minimis change, or as soon as reasonably practicable in the event of an unanticipated circumstance causing the de minimis change, and must include the information requested in ARM 17.8.745(1)(d) (ARM 17.8.745).
5. Ward shall document, by month, the total hours of operation of the diesel generators. By the 25th day of each month, Ward shall total the hours of operation of the diesel generators during the previous 12 months to verify compliance with the limitation in Section II.A.9. A written report of the compliance verification shall be submitted along with the annual emission inventory (ARM 17.8.749 and ARM 17.8.1204).
6. Ward shall annually certify that it's actual emissions are less than those that would require the source to obtain an Air Quality Operating Permit as required by ARM 17.8.1204(3)(b). The annual certification shall comply with the certification requirements of ARM 17.8.1207. The annual certification shall be submitted with the annual emissions inventory information (ARM 17.8.1204).

Section III: General Conditions

- A. Inspection - Ward shall allow the Department's representatives access to the source at all reasonable times for the purpose of making inspections or surveys, collecting samples, obtaining data, auditing any monitoring equipment (CEMS, CERMS) or observing any monitoring or testing, and otherwise conducting all necessary functions related to this permit.
- B. Waiver - The permit and all the terms, conditions, and matters stated herein shall be deemed accepted if Ward fails to appeal as indicated below.
- C. Compliance with Statutes and Regulations - Nothing in this permit shall be construed as relieving Ward of the responsibility for complying with any applicable federal or

Montana statute, rule or standard, except as specifically provided in ARM 17.8.740, *et seq.* (ARM 17.8.756).

- D. Enforcement - Violations of limitations, conditions and requirements contained herein may constitute grounds for permit revocation, penalties or other enforcement as specified in Section 75-2-401 *et seq.*, MCA.
- E. Appeals – Any person or persons jointly or severally adversely affected by the Department's decision may request, within 15 days after the Department renders its decision, upon affidavit setting forth the grounds therefore, a hearing before the Board of Environmental Review (Board). A hearing shall be held under the provisions of the Montana Administrative Procedures Act. The filing of a request for a hearing does not stay the Department's decision, unless the Board issues a stay upon receipt of a petition and a finding. The issuance of a stay on a permit by the Board postpones the effective date of the Department's decision until conclusion of the hearing and issuance of a final decision by the Board. If a stay is not issued by the Board, the Department's decision on the application is final 16 days after the Department's decision is made.
- F. Permit Inspection - As required by ARM 17.8.755, Inspection of Permit, a copy of the air quality permit shall be made available for inspection by Department personnel at the location of the permitted source.
- G. Permit Fees - Pursuant to Section 75-2-220, MCA, as amended by the 1991 Legislature, failure to pay the annual operation fee by Ward may be grounds for revocation of this permit, as required by that section and rules adopted thereunder by the Board.
- H. Construction Commencement - Construction must begin within 3 years of permit issuance and proceed with due diligence until the project is complete or the permit shall be revoked.
- I. The Department may modify the conditions of this permit based on local conditions of any future site. These factors may include, but are not limited to, local terrain, meteorological conditions, proximity to residences, etc.
- J. Ward shall comply with the conditions contained in this permit while operating at any location in Montana, except within those areas having a Department approved permitting program.

PERMIT ANALYSIS
Ward Crushing, LLC
Permit Number 2990-04

I. Introduction/Process Description

A. Permitted Equipment

Ward Crushing LLC (Ward) owns and operates a portable crushing/screening facility consisting of a portable 1949 Cedar Rapids Master Tandem crushing plant that consists of a jaw crusher (maximum production 105 tons per hour (TPH) and rolls crusher (maximum production 105 TPH) and 1983 4'x14' screen (maximum production 105 TPH), an AC diesel generator (250 kilowatts (KW)), a 1987 Norberg cone crusher (maximum production 125 TPH), a 1983 5'x16' EL Jay 3-deck screen (maximum production 125 TPH), a Detroit diesel generator (450 KW), a 1959 20"x36" Pioneer jaw crusher (maximum capacity 140 TPH), and associated equipment. Permit #2990-04 will apply to the source while operating at any location in Montana, except within those areas having a Department of Environmental Quality (Department) approved permitting program and those areas considered tribal lands. Addendum 4 to this permit will apply while operating at those areas in or within 10 kilometers (km) of certain particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀) nonattainment areas. *A Missoula County air quality permit will be required for locations within Missoula County, Montana.*

B. Process Description

Ward proposes to use this crushing/screening plant and associated equipment to crush sand and gravel materials for use in various construction operations. For a typical operational setup, materials are loaded into the crushing/screening plant by a hopper, transferred by conveyor, and passed through the crushers. Materials are crushed by the crushers and sent to the screens. Materials are screened, separated, and sent to stockpile for sale and use in construction operations.

C. Permit History

On October 2, 1997, Steve and Kendall Ward were issued **Permit #2990-00** to operate a portable 1949 Cedar Rapids Master Tandem crushing plant (maximum production 105 TPH), which contained the following equipment: a jaw crusher; a rolls crusher; a 1983 4'x14' screen; and associated equipment. The facility initially operated at Section 6, Township 29 North, Range 30 West, Lincoln County, Montana (Airport Pit).

On March 11, 1999, Ward was issued a permit to reflect a name change from Steve and Kendall Ward to Ward. In addition, a Transfer of Location notice was submitted to operate within the Libby PM₁₀ nonattainment area (NAA) at Section 6, Township 29 North, Range 30 West in Lincoln County, Montana, during the winter months of October 1, 1998, through March 31, 1999. Screen 3 modeling was conducted to demonstrate compliance with the PM₁₀ standards during the winter months operation at the Airport Pit site. **Permit #2990-01** replaced Permit #2990-00, and **Addendum 1** was established. Addendum 1 to Permit #2990-01 also allowed this facility to operate in or within 10 kilometers of any of the following PM₁₀ nonattainment areas during the summer months of April 1, 2000, through September 30, 2001: Libby, Kalispell, Columbia Falls, Whitefish, Thompson Falls, and Butte.

On October 11, 2000, Ward was issued a permit to add a 1987 Norberg cone crusher (maximum production 125 TPH); a 1983 EL Jay 3-deck screen (maximum production 125 TPH); and a Detroit diesel generator (450 KW) to the permitted equipment. In addition, a request was made for a wintertime addendum to operate at Section 1, Township 29 North, Range 31 West (Miller Pit) and Section 6, Township 29 North, Range 30 West (Airport Pit). The permit was also updated to allow the facility to operate in or within 10 kilometers of any of the following PM₁₀ nonattainment areas during the summer months of April 1, 2001, through September 30, 2001: Libby, Kalispell, Columbia Falls, Whitefish, Thompson Falls, and Butte. **Permit #2990-02** replaced Permit #2990-01 and **Addendum 2** replaced Addendum 1.

On August 18, 2001, Ward submitted a request to add a 1959 20"x36" Pioneer jaw crusher (maximum capacity 140 TPH) to the existing permitted equipment. Because the addition of equipment would result in the generation of particulate emissions of less than 15 tons per year, the change constituted a de minimis addition of equipment, as was defined in Administrative Rules of Montana (ARM) 17.8.705(1)(r). In addition, Ward submitted a request on August 27, 2001, to renew their wintertime addendum to operate at Section 1, Township 29 North, Range 31 West (Miller Pit); Section 6, Township 29 North, Range 30 West (Airport Pit); and Section 15, Township 27 North, Range 24 West. The addendum was also updated to allow the facility to operate in or within 10 kilometers of any of the following PM₁₀ nonattainment areas during the summer months: Libby, Kalispell, Columbia Falls, Whitefish, Thompson Falls, and Butte. **Permit #2990-03** replaced Permit #2990-02, and **Addendum 3** replaced Addendum 2.

D. Current Permit Action

On July 28, 2004, Ward requested an administrative amendment to Permit #2990-03 to add the Hillcrest gravel pit (N ½ of the NE ¼ of Section 15, Township 21 North, Range 29 West, in Sanders County, Montana) to their existing addendum. Further, on July 28, 2004, Ward also requested that the permit be generalized to allow for additional operational flexibility. However, on August 25, 2004, Ward chose to revoke that request. The permit was also updated to reflect the current language and rule references used by the Department. **Permit #2990-04** will replace permit #2990-03 and **Addendum 4** will replace Addendum 3.

E. Additional Information

Additional information, such as applicable rules and regulations, Best Available Control Technology (BACT)/Reasonably Available Control Technology (RACT) determinations, air quality impacts, and Environmental Assessments, is included in the Permit Analysis associated with each change to the permit.

II. Applicable Rules and Regulations

The following are partial explanations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the ARM and are available, upon request, from the Department. Upon request, the Department will provide references for locations of complete copies of all applicable rules and regulations or copies where appropriate.

A. ARM 17.8, Subchapter 1 - General Provisions, including, but not limited to:

1. ARM 17.8.101 Definitions. This rule is a list of applicable definitions used in this subchapter, unless indicated otherwise in a specific subchapter.
2. ARM 17.8.105 Testing Requirements. Any person or persons responsible for the

emission of any air contaminant into the outdoor atmosphere shall, upon written request of the Department, provide the facilities and necessary equipment (including instruments and sensing devices) and shall conduct tests, emission or ambient, for such periods of time as may be necessary using methods approved by the Department.

3. ARM 17.8.106 Source Testing Protocol. The requirements of this rule apply to any emission source testing conducted by the Department, any source, or other entity as required by any rule in this chapter, or any permit or order issued pursuant to this chapter, or the provisions of the Clean Air Act of Montana, 75-2-101, *et seq.*, Montana Code Annotated (MCA).

Ward shall comply with all requirements contained in the Montana Source Test Protocol and Procedures Manual, including, but not limited to, using the proper test methods and supplying the required reports. A copy of the Montana Source Test Protocol and Procedures Manual is available from the Department upon request.

4. ARM 17.8.110 Malfunctions. (2) The Department must be notified promptly by telephone whenever a malfunction occurs that can be expected to create emissions in excess of any applicable emission limitation or to continue for a period greater than 4 hours.
5. ARM 17.8.111 Circumvention. (1) No person shall cause or permit the installation or use of any device or any means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission of air contaminant that would otherwise violate an air pollution control regulation. (2) No equipment that may produce emissions shall be operated or maintained in such a manner that a public nuisance is created.

B. ARM 17.8, Subchapter 2 - Ambient Air Quality, including, but not limited to:

1. ARM 17.8.210 Ambient Air Quality Standards for Sulfur Dioxide
2. ARM 17.8.211 Ambient Air Quality Standards for Nitrogen Dioxide
3. ARM 17.8.212 Ambient Air Quality Standards for Carbon Monoxide
4. ARM 17.8.220 Ambient Air Quality Standard for Settled Particulate Matter
5. ARM 17.8.223 Ambient Air Quality Standard for PM₁₀

Ward must comply with the applicable ambient air quality standards.

C. ARM 17.8, Subchapter 3 - Emission Standards, including, but not limited to:

1. ARM 17.8.304 Visible Air Contaminants. This rule requires that no person may cause or authorize emissions to be discharged into the outdoor atmosphere from any source installed after November 23, 1968, that exhibit an opacity of 20% or greater averaged over 6 consecutive minutes.
2. ARM 17.8.308 Particulate Matter, Airborne. (1) This rule requires an opacity limitation of less than 20% for all fugitive emission sources and that reasonable precautions be taken to control emissions of airborne particulate matter (PM). (2) Under this rule, Ward shall not cause or authorize the use of any street, road, or parking lot without taking reasonable precautions to control emissions of airborne PM.
3. ARM 17.8.309 Particulate Matter, Fuel Burning Equipment. This rule requires

that no person shall cause or authorize to be discharged into the atmosphere PM caused by the combustion of fuel in excess of the amount determined by this rule.

4. ARM 17.8.310 Particulate Matter, Industrial Processes. This rule requires that no person shall cause or allow to be discharged into the atmosphere PM in excess of the amount set forth in this rule.
5. ARM 17.8.322 Sulfur Oxide Emissions--Sulfur in Fuel. This rule requires that no person shall burn liquid, solid, or gaseous fuel in excess of the amount set forth in this rule.
6. ARM 17.8.324 Hydrocarbon Emissions--Petroleum Products. (3) No person shall load or permit the loading of gasoline into any stationary tank with a capacity of 250 gallons or more from any tank truck or trailer, except through a permanent submerged fill pipe, unless such tank truck or trailer is equipped with a vapor loss control device as described in (1) of this rule.
7. ARM 17.8.340 Standards of Performance for New Stationary Sources. This rule incorporates, by reference, 40 CFR 60, Standards of Performance for New Stationary Sources (NSPS). The owner or operator of any stationary source or modification, as defined and applied in 40 CFR Part 60, NSPS, shall comply with the standards and provisions of 40 CFR Part 60.

In order for a crushing/screening plant to be subject to NSPS requirements, two specific criteria must be met. First, the crushing/screening plant must meet the definition of an affected facility and, second, the equipment in question must have been constructed, reconstructed, or modified after August 31, 1983. Based on the information submitted by Ward, the crushing/screening equipment may become subject to NSPS standards (40 CFR Part 60, Subpart A General Provisions, and Subpart OOO, Non-Metallic Mineral Processing Plants).

D. ARM 17.8, Subchapter 5 - Air Quality Permit Application, Operation, and Open Burning Fees, including, but not limited to:

1. ARM 17.8.504 Air Quality Permit Application Fees. This rule requires that Ward submit an air quality permit application fee concurrent with the submittal of an air quality permit application. A permit application is incomplete until the proper application fee is paid to the Department. Ward was not required to submit a permit application fee for the current permit action, because the change is an administrative amendment.
2. ARM 17.8.505 Air Quality Operation Fees. An annual air quality operation fee must, as a condition of continued operation, be submitted to the Department by each source of air contaminants holding an air quality permit, excluding an Open Burning Permit, issued by the Department. This operation fee is based on the actual or estimated actual amount of air pollutants emitted during the previous calendar year.

An air quality operation fee is separate and distinct from an air quality permit application fee. The annual assessment and collection of the air quality operation fee, described above, shall take place on a calendar-year basis. The Department may insert into any final permit issued after the effective date of these rules, such conditions as may be necessary to require the payment of an air quality operation fee on a calendar-year basis, including provisions that pro-rate the required fee

amount.

- E. ARM 17.8, Subchapter 7 - Permit, Construction and Operation of Air Contaminant Sources, including, but not limited to:
1. ARM 17.8.740 Definitions. This rule is a list of applicable definitions used in this chapter, unless indicated otherwise in a specific subchapter.
 2. ARM 17.8.743 Montana Air Quality Permits--When Required. This rule requires a facility to obtain an air quality permit or permit alteration to construct, alter, or use any asphalt plant, crusher, or screen that has the Potential to Emit (PTE) greater than 15 tons per year of any pollutant. Ward has a PTE greater than 15 tons per year of total PM, PM₁₀, oxides of nitrogen (NO_x), and carbon monoxide (CO); therefore, an air quality permit is required.
 3. ARM 17.8.744 Montana Air Quality Permits--General Exclusions. This rule identifies the activities that are not subject to the Montana Air Quality Permit Program.
 4. ARM 17.8.745 Montana Air Quality Permits—Exclusion for De Minimis Changes. This rule identifies the de minimis changes at permitted facilities that do not require a permit under the Montana Air Quality Permit Program.
 5. ARM 17.8.748 New or Modified Emitting Units--Permit Application Requirements. (1) This rule requires that a permit application be submitted prior to installation, modification, or use of a source. Ward was not required to submit a permit application for the current permit action because it is an administrative action. (7) This rule requires that the applicant notify the public by means of legal publication in a newspaper of general circulation in the area affected by the application for a permit. Ward was not required to submit a permit application or public notice for the current permit action because the current permit action is an administrative amendment with no increase in potential emissions.
 6. ARM 17.8.749 Conditions for Issuance or Denial of Permit. This rule requires that the permits issued by the Department must authorize the construction and operation of the facility or emitting unit subject to the conditions in the permit and the requirements of this subchapter. This rule also requires that the permit must contain any conditions necessary to assure compliance with the Federal Clean Air Act (FCAA), the Clean Air Act of Montana, and rules adopted under those acts.
 7. ARM 17.8.752 Emission Control Requirements. This rule requires a source to install the maximum air pollution control capability that is technically practicable and economically feasible, except that BACT shall be utilized. The required BACT analysis is included in Section IV of this permit analysis.
 8. ARM 17.8.755 Inspection of Permit. This rule requires that air quality permits shall be made available for inspection by the Department at the location of the source.
 9. ARM 17.8.756 Compliance with Other Requirements. This rule states that nothing in the permit shall be construed as relieving Ward of the responsibility

for complying with any applicable federal or Montana statute, rule, or standard, except as specifically provided in ARM 17.8.740, *et seq.*

10. ARM 17.8.759 Review of Permit Applications. This rule describes the Department's responsibilities for processing permit applications and making permit decisions on those permit applications that do not require the preparation of an Environmental Impact Statement.
11. ARM 17.8.762 Duration of Permit. An air quality permit shall be valid until revoked or modified, as provided in this subchapter, except that a permit issued prior to construction of a new or altered source may contain a condition providing that the permit will expire unless construction is commenced within the time specified in the permit, which in no event may be less than 1-year after the permit is issued.
12. ARM 17.8.763 Revocation of Permit. An air quality permit may be revoked upon written request of Ward, or for violations of any requirement of the Clean Air Act of Montana, rules adopted under the Clean Air Act of Montana, the FCAA, rules adopted under the FCAA, or any applicable requirement contained in the Montana State Implementation Plan (SIP).
13. ARM 17.8.764 Administrative Amendment to Permit. An air quality permit may be amended for changes in any applicable rules and standards adopted by the Board of Environmental Review (Board) or changed conditions of operation at a source or stack that do not result in an increase of emissions as a result of those changed conditions. The owner or operator of a facility may not increase the facility's emissions beyond permit limits unless the increase meets the criteria in ARM 17.8.745 for a de minimis change not requiring a permit, or unless the owner or operator applies for and receives another permit in accordance with ARM 17.8.748, ARM 17.8.749, ARM 17.8.752, ARM 17.8.755, and ARM 17.8.756, and with all applicable requirements in ARM Title 17, Chapter 8, Subchapters 8, 9, and 10.
14. ARM 17.8.765 Transfer of Permit. (1) This rule states that an air quality permit may be transferred from one location to another if the Department receives a complete notice of Intent to Transfer location, the facility will operate in the new location for less than 1-year, the facility will comply with the FCAA and the Clean Air Act of Montana, and the facility complies with other applicable rules. (2) This rule states that an air quality permit may be transferred from one person to another if written notice of Intent to Transfer, including the names of the transferor and the transferee, is sent to the Department.

F. ARM 17.8, Subchapter 8 - Prevention of Significant Deterioration of Air Quality, including, but not limited to:

1. ARM 17.8.801 Definitions. This rule is a list of applicable definitions used in this subchapter.
2. ARM 17.8.818 Review of Major Stationary Sources and Major Modifications--Source Applicability and Exemptions. The requirements contained in ARM 17.8.819 through ARM 17.8.827 shall apply to any major stationary source and any major modification with respect to each pollutant subject to regulation under the FCAA that it would emit, except as this subchapter would otherwise allow. This facility is not a major stationary source because it is not a listed source and does not have a PTE greater than 250 tons per year (excluding fugitive

emissions) of any air pollutant.

G. ARM 17.8, Subchapter 12 - Operating Permit Program Applicability, including, but not limited to:

1. ARM 17.8.1201 Definitions. (23) Major Source under Section 7412 of the FCAA is defined as any stationary source having:
 - a. PTE > 100 tons/year of any pollutant.
 - b. PTE > 10 tons/year of any one Hazardous Air Pollutant (HAP), PTE > 25 tons/year of a combination of all HAPs, or lesser quantity as the Department may establish by rule.
 - c. PTE > 70 tons/year of PM₁₀ in a serious PM₁₀ nonattainment area.
2. ARM 17.8.1204 Air Quality Operating Permit Program Applicability. (1) Title V of the FCAA Amendments of 1990 requires that all sources, as defined in ARM 17.8.1204 (1), obtain a Title V Operating Permit. In reviewing and issuing Air Quality Permit #2990-04 for the Ward facility, the following conclusions were made:
 - a. The facility's PTE is less than 100 tons/year for any pollutant.
 - b. The facility's PTE is less than 10 tons/year for any one HAP and less than 25 tons/year of all HAPs.
 - c. This source is not located in a serious PM₁₀ nonattainment area.
 - d. This facility is not subject to any current NESHAP standards.
 - e. The facility is currently subject to NSPS standards (40 CFR 60, Subpart A, General Provisions, and Subpart OOO, Non-Metallic Mineral Processing Plants).
 - f. This source is not a Title IV affected source nor a solid waste combustion unit.
 - g. This source is not an EPA designated Title V source.

Based on these facts, the Department determined that this facility would be a minor source of emissions, as defined under the Title V Operating Permit Program. However, if minor sources subject to NSPS are required to obtain a Title V Operating Permit, Ward may be required to obtain a Title V Operating Permit.

- h. ARM 17.8.1204(3). The Department may exempt a source from the requirement to obtain an air quality operating permit by establishing federally enforceable limitations, which limit that source's PTE.
- i. In applying for an exemption under this section, the owner or operator of the source shall certify to the Department that the source's PTE does not require the source to obtain an air quality

operating permit.

- ii. Any source that obtains a federally enforceable limit on PTE shall annually certify that its actual emissions are less than those that would require the source to obtain an air quality operating permit.

The Department has determined that the annual reporting requirements contained in the permit are sufficient to satisfy this requirement.

3. ARM 17.8.1207 Certification of Truth, Accuracy, and Completeness. The compliance certification submittal required by ARM 17.8.1204(3) shall contain certification by a responsible official of truth, accuracy, and completeness. This certification and, any other certification required under this subchapter, shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the document are true, accurate, and complete.

III. Emission Inventory

Source	Ton/Year					
	PM	PM ₁₀	NO _x	VOC	CO	SO _x
1949 Cedar Rapids Tandem Jaw Crusher (105 TPH)	1.15	0.55				
1949 Cedar Rapids Tandem Roll Crusher (105 TPH)	1.15	0.55				
1987 Norberg Cone Crusher (125 TPH)	1.37	0.66				
1959 (20"x36") Pioneer Jaw Crusher (140 TPH)	1.53	0.74				
1983 EL Jay 5'x 16' 3-deck Screen (125 TPH)	8.62	4.11				
1983 4'x14' Screen (105 TPH)	7.24	3.45				
Material Transfer	19.56	9.44				
Pile Forming	25.75	12.26				
Bulk Loading	2.58	1.23				
AC Diesel Generator (250 KW)	2.52	2.52	35.49	2.83	7.65	2.35
Detroit Diesel Generator (450 KW)	4.53	4.53	63.88	5.09	13.77	4.22
Haul Roads	2.74	1.23				
Total	78.74	41.27	99.37	7.92	21.42	6.57

- A complete Emission Inventory for Permit #2990-04 is on file with the Department. Limitations were previously placed on the annual hours of operation for each of the diesel generators (6,830 hours per rolling 12-month time period).

IV. BACT Analysis

A BACT determination is required for any new or altered source. Ward shall install on the new or altered source the maximum air pollution control capability that is technologically practicable and economically feasible, except that BACT shall be used. However, a BACT determination was not required for the permit action because no new or altered sources are being added as part of this permit action.

V. Existing Air Quality

Addendum 4 of Permit #2990-04 would cover this portable crushing/screening plant while operating in or within 10 km of certain PM₁₀ nonattainment areas during the summer months (April 1 through September 30) and at specified site locations during the winter months (October 1 through March 31). Permit #2990-04 would also cover this facility while operating in areas classified as attainment or unclassified for ambient air quality standards.

VI. Air Quality Impacts

Based on the information provided and the conditions established in Permit #2990-04, the amount of controlled emissions generated by this facility will not exceed any set ambient air quality standards. Further, the limitations and conditions established in Addendum 4 would further reduce emissions in the nonattainment areas and would be protective of the ambient air quality standards. Also, this facility is a portable source that would operate on an intermittent and temporary basis, so any effects to air quality will be minor and short-lived. The conditions in Permit #2990-04 will be protective of air quality while Ward is operating at locations classified as attainment or unclassified for ambient air quality standards.

Addendum 4
Ward Crushing, L.L.C.
Permit #2990-04

An addendum to air quality Permit #2990-04 is issued to Ward Crushing, L.L.C. (Ward), pursuant to Sections 75-2-204 and 75-2-211 of the Montana Code Annotated (MCA), as amended, and the Administrative Rules of Montana (ARM) 17.8.765, as amended, for the following:

I. Permitted Equipment

Ward applied for Addendum 4 to Permit #2990-04 for the operation of a portable crushing/screening operation in or within 10 kilometers (km) of the following particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀) nonattainment areas: Butte, Columbia Falls, Libby, Kalispell, Thompson Falls, and Whitefish.

II. Seasonal and Site Restrictions

Addendum 4 applies to the Ward facility while operating at any location in or within 10 km of certain PM₁₀ nonattainment areas. Additionally, seasonal and site restrictions apply to the facility as follows:

- A. During the winter season (October 1-March 31) – The only locations in or within 10 km of a PM₁₀ nonattainment area where Ward may operate are:
 - 1. Section 1, Township 29 North, Range 31 West,
 - 2. Section 6, Township 29 North, Range 30 West,
 - 3. Section 15, Township 27 North, Range 24 West,
 - 4. Section 15, Township 21 North, Range 29 West,
 - 5. Any other site that may be approved, in writing, by the Department of Environmental Quality (Department).
- B. During the summer season (April 1-September 30) – Ward may operate at any location in or within 10 km of the Butte, Columbia Falls, Libby, Kalispell, Thompson Falls, and Whitefish PM₁₀ nonattainment areas.
- C. Ward shall comply with the limitations and conditions contained in Addendum 4 to Permit #2990-04 while operating in or within 10 km of any of the previously listed PM₁₀ nonattainment areas. Addendum 4 shall be valid until revoked or modified. The Department reserves the authority to modify Addendum 4 at any time based on local conditions of any future site. These conditions may include, but are not limited to, local terrain, meteorological conditions, proximity to residences or other businesses, etc.

III. Limitations and Conditions

A. Operational

- 1. Water spray bars must be available and operated, as necessary, on the crushers, screens, and all transfer points whenever the crushing/screening plant is operating (ARM 17.8.749).
- 2. Water shall not cause or authorize to be discharged into the atmosphere from any equipment, such as screens or transfer points, any visible emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).

3. Ward shall not cause or authorize to be discharged into the atmosphere from haul roads, access roads, parking lots, or the general plant property any visible fugitive emissions that exhibit an opacity of 10% or greater averaged over 6 consecutive minutes (ARM 17.8.749).
4. Ward shall treat all unpaved portions of the access roads, parking lots, and general plant area with water and/or chemical dust suppressant as necessary to maintain compliance with the 10% opacity limitation (ARM 17.8.749).
5. The total combined crusher production for the four crushers shall not exceed 3,792 tons during any rolling 24-hour time period (ARM 17.8.749).
6. The total combined screen production for the two screens shall not exceed 1,896 tons during any rolling 24-hour time period (ARM 17.8.749).
7. The hours of operation of the diesel generator shall not exceed 18 hours during any rolling 24-hour time period (ARM 17.8.749).

B. Operational Reporting Requirements

1. Ward shall provide the Department with written notification of job completion within 10 working days of job completion (ARM 17.8.749).
2. Ward shall provide the Department with written notice of relocation of the permitted equipment within 15 working days before the physical transfer of equipment (ARM 17.8.765).
3. Production information for the sites covered by this addendum must be submitted to the Department with the annual emissions inventory or within 30 days of completion of the project. The information must include (ARM 17.8.749):
 - a. Tons of material crushed by each crusher at each site,
 - b. Tons of material screened by each screen at each site,
 - c. Tons of bulk material loaded at each site,
 - d. Daily hours of operation at each site,
 - e. Gallons of diesel used by the generator at each site,
 - f. Fugitive dust information consisting of all plant vehicles, including the following:
 - i. Number of vehicles
 - ii. Vehicle type
 - iii. Vehicle weight, loaded
 - iv. Vehicle weight, unloaded
 - v. Number of tires on vehicle
 - vi. Average trip length
 - vii. Number of trips per day per vehicle
 - viii. Average vehicle speed
 - ix. Area of activity

- x. Vehicle fuel usage (gasoline and diesel) annual total
- g. Fugitive dust control for haul roads and the general plant area:
 - i. Hours of operation of water trucks
 - ii. Application schedule for chemical dust suppressant, if applicable
- 4. Ward shall document, by day, the total combined crushing production. Ward shall sum the total crushing production during the previous 24 hours to verify compliance with the limitation in Section III.A.5. A written report of compliance and the emissions inventory shall be submitted to the Department annually. The report for the previous calendar year shall be submitted and may be submitted along with the annual emissions inventory (ARM 17.8.752).
- 5. Ward shall document, by day, the total combined screening production. Ward shall sum the total screening production during the previous 24 hours to verify compliance with the limitation in Section III.A.6. A written report of compliance and the emissions inventory shall be submitted to the Department annually. The report for the previous calendar year shall be submitted and may be submitted along with the annual emissions inventory (ARM 17.8.752).
- 6. Ward shall document, by day, the total hours of operation of the diesel generators. Ward shall sum the total hours of operation of the diesel generators, during the previous 24 hours, to verify compliance with the limitation in Section III.A.7. A written report of compliance and the emissions inventory shall be submitted to the Department annually. The report for the previous calendar year shall be submitted and may be submitted along with the annual emissions inventory (ARM 17.8.752).

Addendum 4 Analysis
Ward Crushing, L.L.C.
Permit #2990-04

I. Permitted Equipment

Ward Crushing, L.L.C. (Ward) operates a portable 1949 Cedar Rapids Master Tandem Crushing Plant that consists of a jaw crusher (maximum production 105 tons per hour (TPH)) and rolls crusher (maximum production 105 TPH) and 1983 4'x14' screen (maximum production 105 TPH), a AC diesel generator (250 kilowatts (KW)), a 1987 Norberg cone crusher (maximum production 125 TPH), a 1983 5'x16' EL Jay 3-deck screen (maximum production 125 TPH), a Detroit diesel generator (450 KW), a 1959 20"x36" Pioneer jaw crusher (maximum capacity 140 TPH), and associated equipment.

II. Source Description

Ward proposes to use this crushing/screening plant and associated equipment to crush sand and gravel materials for use in various construction operations. For a typical operational setup, materials are loaded into the crushing/screening plant by a hopper, transferred by conveyor, and passed through the crushers. Materials are crushed by the crushers and sent to the screens. Material are screened, separated, and sent to stockpile for sale and use in construction operations.

III. Applicable Rules and Regulations

The following are partial quotations of some applicable rules and regulations that apply to the facility. The complete rules are stated in the Administrative Rules of Montana (ARM) and are available, upon request, from the Department of Environmental Quality (Department). Upon request, the Department will provide references for locations of complete copies of all applicable rules and regulations or copies where appropriate.

ARM 17.8, Subchapter 7 - Permit, Construction and Operation of Air Contaminant Sources, including, but not limited to:

- A. ARM 17.8.749 Conditions for Issuance of Permit. This rule requires that the permits issued by the Department must authorize the construction and operation of the facility or emitting unit subject to the conditions in the permit and the requirements of this subchapter. This rule also requires that the permit must contain any conditions necessary to assure compliance with the Federal Clean Air Act (FCAA), the Clean Air Act of Montana, and rules adopted under those acts.
- B. ARM 17.8.764 Modification of Permit. An air quality permit may be modified for changes in any applicable rules and standards adopted by the Board of Environmental Review (Board) or changed conditions of operation at a source or stack which do not result in an increase in emissions because of the changed conditions. A source may not increase its emissions beyond those found in its permit unless the source applies for and receives another permit.
- C. ARM 17.8.765 Transfer of Permit. An air quality permit may be transferred from one location to another if:
 - 1. Written notice of Intent to Transfer location and proof of public notice are sent to the Department;

2. The source will operate in the new location for a period of less than 1 year; and
3. The source will not have any significant impact on any nonattainment area or any Class I area.

Ward must submit proof of compliance with the transfer and public notice requirements when Ward transfers to any of the locations covered by this addendum and will only be allowed to stay in the new location for a period of less than 1 year. Also, compliance with the conditions and limitations in Addendum 4 to Permit #2990-04 will minimize the impacts upon any particulate matter with an aerodynamic diameter of 10 microns or less (PM₁₀) nonattainment areas.

IV. Emission Inventory

Source	Lbs/Day					
	PM	PM ₁₀	NO _x	VOC	CO	SO _x
1949 Cedar Rapids Tandem Jaw Crusher (105 TPH)	4.74	2.28				
1949 Cedar Rapids Tandem Roll Crusher (105 TPH)	4.74	2.28				
1987 Norberg Cone Crusher (125 TPH)	4.74	2.28				
1959 (20"x36") Pioneer Jaw Crusher (140 TPH)	4.74	2.28				
1983 EL Jay 5'x 16' 3-deck Screen (125 TPH)	29.86	14.22				
1983 4'x14' Screen (105 TPH)	29.86	14.22				
Material Transfer	60.48	29.20				
Pile Forming	79.63	37.92				
Bulk Loading	7.96	3.79				
AC Diesel Generator (250 KW)	13.80	13.80	194.47	15.50	41.91	12.86
Detroit Diesel Generator (450 KW)	24.84	24.84	350.05	27.89	75.43	23.15
Haul Roads	15.00	6.75				
Total	280.39	153.86	544.52	43.39	117.34	36.01

- A complete emissions inventory for Permit #2990-04 is on file with the Department. Limitations were placed on the hours of operation for the diesel generator (18 hours per rolling 24 hour time period) and the production rate for each crusher and each screen (39.5 tons per hour).

V. Existing Air Quality

On July 1, 1987, the Environmental Protection Agency (EPA) promulgated new National Ambient Air Quality Standards (NAAQS) for PM₁₀. Due to exceedances of the national standards for PM₁₀, the cities of Kalispell (and the nearby Evergreen area), Columbia Falls, Butte, Whitefish, Libby, Missoula, and Thompson Falls were designated by EPA as nonattainment for PM₁₀. As a result of this designation, EPA required the Department and the City-County Health Departments to submit PM₁₀ State Implementation Plans (SIP). The SIPs consisted of emission control plans that controlled fugitive dust emissions from roads, parking lots, construction, and demolition, since technical studies determined these sources to be the major contributors to PM₁₀ emissions.

Addendum 4 to Permit #2990-04 is for a portable crushing/screening plant to be located at sites in or within 10 km of certain PM₁₀ nonattainment areas during the summer season (April 1 through September 30) and specific site locations during the winter season (October 1 through March 31).

Summer season operations may include locations in or within 10 km of certain PM₁₀ nonattainment areas, including, but not limited to Butte, Columbia Falls, Libby, Kalispell, Thompson Falls, and Whitefish. Winter season includes specific sites in the Libby and Thompson Falls nonattainment area and any other locations that are approved by the Department,

in writing.

VI. Air Quality Impacts

Ward applied for an air quality permit to operate a portable crushing/screening plant to be located at various locations throughout Montana. Permit #2990-04 and Addendum 4 will cover the Ward crushing/screening plant while operating at any location within Montana, excluding those counties that have a Department approved permitting program and those areas considered tribal lands. Based on the information provided, the amount of controlled emissions generated by this facility will not exceed any ambient air quality standard. In addition, this source is portable and any air quality impacts will be minimal.

VII. Taking or Damaging Implication Analysis

As required by 2-10-101 through 105, Montana Code Annotated (MCA), the Department conducted a private property taking and damaging assessment and determined there are no taking or damaging implications.

VIII. Environmental Assessment

An Environmental Assessment, required by the Montana Environmental Policy Act (MEPA), was completed for this project. A copy is attached.

DEPARTMENT OF ENVIRONMENTAL QUALITY
Permitting and Compliance Division
Air Resources Management Bureau
1520 East Sixth Avenue
P.O. Box 200901
Helena, MT 59620-0901
(406) 444-3490

FINAL ENVIRONMENTAL ASSESSMENT (EA)

Issued For: Ward Crushing, L.L.C

Permit Number: #2990-04

Preliminary Determination Issued: August 26, 2004

Department Decision Issued:

Permit Final:

1. *Legal Description of Site:* Ward submitted an application to operate a portable crushing/screening plant at various locations throughout Montana, including those identified in Addendum 4 to Permit #2990-04. Permit #2990-04 would apply while operating at any location in Montana, except within those areas having a Department approved permitting program, or those areas considered to be tribal lands. Addendum 4 is included in this air quality permit to allow Ward to operate in or within 10 km of certain PM₁₀ nonattainment areas. *A Missoula County air quality permit would be required for locations within Missoula County, Montana.*
2. *Description of Project:* The permit applicant proposes the construction and operation of a portable crushing/screening facility consisting of a portable 1949 Cedar Rapids Master Tandem Crushing Plant that consists of a jaw crusher (maximum production 105 TPH) and rolls crusher (maximum production 105 TPH) and 1983 4'x14' screen (maximum production 105 TPH), a AC diesel generator (250 KW), a 1987 Norberg cone crusher (maximum production 125 TPH), a 1983 5'x16' EL Jay 3-deck Screen (maximum production 125 TPH), a Detroit diesel generator (450 KW), a 1959 20"x36" Pioneer jaw crusher (maximum capacity 140 TPH), and associated equipment.
3. *Objectives of Project:* The objective of the project would be to produce business and revenue for the company through the sale and use of aggregate. The issuance of Permit #2990-04 and Addendum 4 would allow Ward to operate the permitted equipment at various locations throughout Montana, including those locations in or within 10 km of certain PM₁₀ nonattainment areas.
4. *Additional Project Site Information:* In many cases, this crushing/screening operation may move to a general site location or open cut pit, which has been previously permitted through the Industrial and Energy Minerals Bureau (IEMB). If this were the case, additional information for the site would be found in the Mined Land Reclamation Permit for that specific site.
5. *Alternatives Considered:* In addition to the proposed action, the Department considered the "no-action" alternative. The "no-action" alternative would deny issuance of the Air Quality Preconstruction Permit to the proposed facility. However, the Department does not consider the "no-action" alternative to be appropriate because Ward demonstrated compliance with all applicable rules and regulations as required for permit issuance. Therefore, the "no-action" alternative was eliminated from further consideration.

6. *A Listing of Mitigation, Stipulations, and Other Controls:* A listing of the enforceable permit conditions and a Permit Analysis, including a BACT analysis, would be contained in Permit #2990-04.
7. *Regulatory Effects on Private Property Rights:* The Department considered alternatives to the conditions imposed in this permit as part of the permit development. The Department determined the permit conditions would be reasonably necessary to ensure compliance with applicable requirements and to demonstrate compliance with those requirements and would not unduly restrict private property rights.
8. *The following table summarizes the potential physical and biological effects of the proposed project on the human environment. The “no action alternative” was discussed previously.*

		Major	Moderate	Minor	None	Unknown	Comments Included
A.	Terrestrial and Aquatic Life and Habitats			X			yes
B.	Water Quality, Quantity, and Distribution			X			yes
C.	Geology and Soil Quality, Stability, and Moisture			X			yes
D.	Vegetation Cover, Quantity, and Quality			X			yes
E.	Aesthetics			X			yes
F.	Air Quality			X			yes
G.	Unique Endangered, Fragile, or Limited Environmental Resource				X		yes
H.	Demands on Environmental Resource of Water, Air, and Energy			X			yes
I.	Historical and Archaeological Sites				X		yes
J.	Cumulative and Secondary Impacts			X			yes

Summary of Comments on Potential Physical and Biological Effects: The following comments have been prepared by the Department.

A. Terrestrial and Aquatic Life and Habitats

Terrestrials would use the same area as the crushing/screening operations. The crushing/screening operations would be considered a minor source of emissions, by industrial standards, with intermittent and seasonal operations. Therefore, only minor effects on terrestrial life would be expected as a result of equipment operations or from pollutant deposition.

Impacts on aquatic life could result from storm water runoff and pollutant deposition, but such impacts would be minor because the facility would be a minor source of emissions (with seasonal and intermittent operations) and only minor amounts of water would be required to be used for pollution control. Since only a minor amount of air emissions would be generated, only minor deposition would occur. Therefore, only minor and temporary effects to aquatic life and habitat would be expected from the proposed crushing/screening operation.

B. Water Quality, Quantity, and Distribution

Water would be used for dust suppression on the surrounding roadways and areas of operation and for pollution control for equipment operations. However, water use would only cause a minor disturbance to these areas, since only relatively small amounts of water would be needed.

At most, only minor surface and groundwater quality impacts would be expected as a result of using water for dust suppression because only small amounts of water would be required to control air pollutant emissions and deposition of air pollutant emissions would be minor (as described in Section 8.F of this EA).

C. Geology and Soil Quality, Stability, and Moisture

The crushing/screening operations would have only minor impacts on soils in any proposed site location (due to the construction and use of the crushing/screening facility) because the facility is relatively small in size, would use only relatively small amounts of water for pollution control, and would only have seasonal and intermittent operations. Therefore, any effects on geology and soil quality, stability, and moisture at any proposed operational site would be minor.

D. Vegetation Cover, Quantity, and Quality

Because the facility would be a minor source of emissions by industrial standards and would typically operate in areas previously designated and used for aggregate crushing and screening, impacts from the emissions from the crushing/screening facility would be minor.

As described in Section 8.F of this EA, the amount of air emissions from this facility would be minor. As a result, the corresponding deposition of the air pollutants on the surrounding vegetation would also be minor. Also, because the water usage is minimal, as described in Section 8.B, and the associated soil disturbance is minimal, as described in Section 8.C, corresponding vegetative impacts would be minor.

E. Aesthetics

The crushing/screening operation would be visible and would create additional noise while operating in these areas. However, Permit #2990-04 and Addendum 4 would include conditions to control emissions, including visible emissions, from the plant. Also, because the crushing/screening operation would be portable and would operate on an intermittent and seasonal basis and would typically locate within an open-cut pit, any visual and noise impacts would be minor and short-lived.

F. Air Quality

The air quality impacts from the crushing/screening operations would be minor because Permit #2990-04 and Addendum 4 would include conditions limiting the opacity from the plant, as well as requiring water spray bars and other means to control air pollution. Additionally, the facility's production capacity would be limited, so the facility would emit relatively small amounts of air pollutants. Further, Permit #2990-04 and Addendum 4 would limit total emissions from the crushing/screening operation and any additional Ward equipment operated at the site to 250 tons/year or less, excluding fugitive emissions.

This facility would be used on a temporary and intermittent basis, thereby further reducing potential air quality impacts from the facility. Additionally, the small and intermittent amounts of pollutants generated from the crushing/screening operation would only have minor impacts upon the surrounding environment, because only small amounts of pollutants would deposit upon the surrounding plant area. Therefore, air quality impacts would be minor.

G. Unique Endangered, Fragile, or Limited Environmental Resources

The operation of this crushing operation would result in the emissions of air pollutants that could result in impacts to existing unique endangered, fragile, or limited environmental resources in the areas of operation. However, given the temporary and portable nature of the operations, any impacts would be minor and short-lived. Additionally, operational conditions and limitations within Permit #2990-04 and Addendum 4 would aid in the protection of these resources by protecting the surrounding environment.

H. Demands on Environmental Resources of Water, Air, and Energy

Due to the size of the facility, the crushing/screening operation would only require small quantities of water, air, and energy for proper operation. Small quantities of water would be used for dust suppression and would control particulate emissions being generated at the site. Energy requirements would also be small because the energy demands of the crushing/screening operation would be relatively small and the facility would not be used continuously. The facility would have limited hours of operation, limited production, and would have seasonal and intermittent use. In addition, impacts to air resources would be minor because the source is small by industrial standards, with intermittent and seasonal operations, and because air pollutants generated by the facility would be widely dispersed. Therefore, any impacts to water, air, and energy resources in any given area would be minor.

I. Historical and Archaeological Sites

The crushing/screening operations would typically take place within a previously disturbed open-cut pit. According to past correspondence from the Montana Historical Preservation Office, there would be a low likelihood of disturbance to any known archaeological or historical site given any previous industrial disturbance in a given area of operation. Therefore, the crushing/screening operations would have only a minor impact on any historical or archaeological sites in a given area of operation.

J. Cumulative and Secondary Impacts

The crushing/screening operation would cause minor cumulative and secondary impacts to the physical and biological aspects of the human environment because the facility would generate emissions of PM and PM₁₀. Noise would also be generated from the site. Emissions and noise would cause minimal disturbance because the equipment would be a minor emissions source and the facility would be expected to operate in areas designated and used for such operations. Additionally, this facility, in combination with the other emissions from equipment operations at the operational site, would not be permitted to exceed 250 tons/year of non-fugitive emissions. Overall, any cumulative or secondary impacts to the physical and biological aspects of the human environment would be minor.

9. The following table summarizes the potential economic and social effects of the proposed project on the human environment. The “no action alternative” was discussed previously.

		Major	Moderate	Minor	None	Unknown	Comments Included
A.	Social Structures and Mores				X		yes
B.	Cultural Uniqueness and Diversity				X		yes
C.	Local and State Tax Base and Tax Revenue			X			yes
D.	Agricultural or Industrial Production			X			yes
E.	Human Health			X			yes
F.	Access to and Quality of Recreational and Wilderness Activities			X			yes
G.	Quantity and Distribution of Employment				X		yes
H.	Distribution of Population				X		yes
I.	Demands for Government Services			X			yes
J.	Industrial and Commercial Activity			X			yes
K.	Locally Adopted Environmental Plans and Goals			X			yes
L.	Cumulative and Secondary Impacts			X			yes

SUMMARY OF COMMENTS ON POTENTIAL ECONOMIC AND SOCIAL EFFECTS: The following comments have been prepared by the Department.

A. Social Structures and Mores

The crushing/screening operation would cause no disruption to the social structures and mores in the area because the source is a minor source of emissions (by industrial standards) and would only have intermittent operations. Additionally, the equipment would be expected to operate in an area previously designated and used for aggregate crushing/screening and in an area removed from the general population. Further, the facility would be a minor source of air pollution and would be required to operate according to the conditions that would be placed in Permit #2990-04 and Addendum 4. Thus, no native or traditional communities would be affected by the proposed project operations and no impacts upon social structures or mores would result.

B. Cultural Uniqueness and Diversity

The cultural uniqueness and diversity of these areas would not be impacted by the proposed crushing operation because these sites are expected to be previously designated and used for aggregate crushing/screening and because these sites are typically separated from the general population. Additionally, the facility would be considered a portable/temporary source with seasonal and intermittent operations. Therefore, predominant use of the surrounding areas would not change as a result of this project.

C. Local and State Tax Base and Tax Revenue

The crushing/screening operation would have little, if any, impact on the local and state tax base

and tax revenue because the facility would be a relatively small industrial source (minor source) and would be used on a seasonal and intermittent basis. The facility would require the use of only a few employees. Thus, only minor, if any, impacts to the local and state tax base and revenue could be expected from the employees and facility production. Furthermore, the impacts to local tax base and revenue would be minor because the source would also be portable and the money generated for taxes would be widespread.

D. Agricultural or Industrial Production

The crushing/screening operations would have only a minor impact on local industrial production since the facility is a minor source of emissions (by industrial standards) and would typically locate in an existing open-cut pit. There could be minor effects on agricultural land but, the facility operations would be small and temporary in nature and would be permitted with operational conditions and limitations that would minimize impacts upon surrounding vegetation (as described in Section 8.D of this EA). Additionally, pollution control would be utilized for equipment operations and production limits would be established.

E. Human Health

Permit #2990-04 would incorporate conditions to ensure that the crushing/screening facility would operate in compliance with all applicable air quality rules and standards. These rules and standards are designed to be protective of human health. As described in Section 8.F. of this EA, the air emissions from this facility would be minimized by the use of water spray and other conditions that would be established in Permit #2990-04 and Addendum 4. Therefore, only minor impacts would be expected upon human health from the proposed crushing/screening facility.

F. Access to and Quality of Recreational and Wilderness Activities

The crushing/screening plant would typically operate within the confines of an existing open-cut pit. Therefore, only minor impacts upon the access to and quality of recreational and wilderness activities would result. Additionally, noise from the facility would be minor because the facility would typically operate within the confines of an existing open-cut pit. Also, the facility would operate on a seasonal and intermittent basis and would be relatively small by industrial standards. Therefore, any changes in the quality of recreational and wilderness activities created by operating the equipment at a given site would be expected to be minor and intermittent.

G. Quantity and Distribution of Employment

The crushing/screening operation is a small, portable source, with seasonal and intermittent operations and would not be expected to have any long-term effects upon the quantity and distribution of employment in any given area of operation. Therefore, no effects upon the quantity and distribution of employment in these areas would be expected.

H. Distribution of Population

The portable crushing/screening operation is small and would only require a few existing employees to operate. Also, no individuals would be expected to permanently relocate to a given area of operation as a result of operating the crushing/screening facility, which would have only intermittent and seasonal operations. Therefore, the crushing/screening facility would not disrupt the normal population distribution in a given area of operation.

I. Demands of Government Services

Minor increases would be seen in traffic on existing roadways in a given area while the crushing/screening operation is in progress. In addition, government services would be required for acquiring the appropriate permit from government agencies and determining compliance with the permit. Demands for government services would be minor.

J. Industrial and Commercial Activity

The crushing/screening operation would represent only a minor increase in the industrial activity in any given area because the source would be a minor source (relatively small in size by industrial standards) and would be portable and temporary in nature. No additional industrial or commercial activity would be expected as a result of the proposed operation.

K. Locally Adopted Environmental Plans and Goals

The Department is not aware of any locally adopted environmental plans and goals for this proposed crushing/screening operation at the proposed operational site. Ward would be allowed, by permit, to operate in areas designated by EPA as attainment or unclassified and at specific sites within certain PM₁₀ nonattainment areas. Permit #2990-04 and Addendum 4 would contain limits for protecting air quality and to keep facility emissions in compliance with any applicable ambient air quality standards. Because the facility would be a small and portable source, and would have intermittent and seasonal operations, any effects from the facility would be minor and short-lived.

L. Cumulative and Secondary Impacts

The crushing/screening operations would cause minor cumulative and secondary impacts to the social and economic aspects of the human environment in the immediate areas of operation because the source is a portable and temporary source. Minor increases in traffic would have minor effects on local traffic in the immediate areas, thus, having a direct effect on the social environment. Because the source is relatively small and temporary, only minor economic impacts to the local economy would be expected from operating the facility. Thus, only minor and temporary cumulative effects would result on the local economy.

Recommendation: An EIS is not required.

If an EIS is not required, explain why the EA is an appropriate level of analysis: All potential effects resulting from construction and operation of the proposed facility are minor; therefore, an EIS is not required.

Other groups or agencies contacted or which may have overlapping jurisdiction: Department of Environmental Quality - Permitting and Compliance Division (Industrial and Energy Minerals Bureau); Montana Natural Heritage Program; and the State Historic Preservation Office (Montana Historical Society).

Individuals or groups contributing to this EA: Department of Environmental Quality (Air Resources Management Bureau) and the Montana State Historic Preservation Office (Montana Historical Society).

EA prepared by: Ron Lowney

Date: August 18, 2004